



Pollution Prevention and You

In New Jersey, New York, Puerto Rico,
and the U.S. Virgin Islands

Region 2 Pollution Prevention Program





Prevenção da poluição e
você

Bem-vindo

In New Jersey, New York, Puerto Rico,
and the U.S. Virgin Islands

Region 2 Pollution Prevention Program





Pollution Prevention Act of 1990

- Established prevention as the first priority for addressing pollution and waste.
- Set up guiding principles:
 - Reduce potential sources of pollution and waste before they occur.
 - Integrate P2 activities into all aspects and sectors of society.
 - Ensure P2 is also cost effective.



Pollution Prevention (P2)

- Reducing or eliminating waste at the source.
- Modifying production processes.
- Using non-toxic or less toxic substances.
- Implementing conservation techniques and best management practices.
- Maximizing reuse of process materials (or byproducts).



Region 2 Pollution Prevention Office

- Promotes P2 approaches by providing:
 - Direct technical assistance
 - Economic assistance
 - States
 - Local governments
 - Nonprofits
 - Academia
 - Outreach and education



P2 Resources

- EPA P2 Program
www.epa.gov/p2
- EPA Region 2 P2
www.epa.gov/region02/p2





P2 and Energy Efficiency

- Reduces the amount of fuel required to produce energy.
- Reduces related emissions of pollutants and greenhouse gases.
- Can reduce energy costs by 30 to 50 percent.
- Energy-efficient products and clean energy alternatives are key to P2.



ENERGY STAR®

- An ENERGY STAR label:
 - Ensures product meets strict EPA energy efficiency guidelines.
 - Indicates products use up to 90 percent less energy than standard models.
 - Can be found on more than 40,000 products across 50 different product categories.





ENERGY Star New Homes

- At least 15 percent more energy-efficient than homes built to the 2004 International Residential Code.
- Include a variety of “tried and true” energy efficient features that result in improved home quality and homeowner comfort, lower energy demand, and reduced air pollution.



ENERGY Star Building and Plants

- Strategic energy management across an entire organization.
- Provides strategies, tools, professional assistance and recognition opportunities.



ENERGY STAR Successes

- In 2006 alone, Americans—with the help of ENERGY STAR—saved enough energy to avoid greenhouse gas emissions equivalent to emissions from 25 million cars, while simultaneously saving \$14 billion on their utility bills.



“Change a Light” Campaign Benefits

- If every American household took the pledge, they would save enough energy to light more than 3 million homes for a year—equating to more than \$600 million in annual energy costs—and prevent greenhouse gases equivalent to the emissions of more than 800,000 cars.





P2 and Clean Energy

- Includes environmentally friendly, non-polluting forms of energy, typically renewable.
- Reduces emissions of air pollution and greenhouse gases.
- Lowers consumer energy bills.



Clean Energy Partnerships*

- 79 Green Power Partners
- 17 Combined Heat and Power Partners



*Partners located in EPA Region 2 at the end of 2007.





Energy Resources

- ENERGY STAR
www.energystar.gov
- ENERGY STAR “Change a Light Campaign”
www.energystar.gov/index.cfm?fuseaction=cal.show
Pledge
- EPA’s Clean Energy Programs
www.epa.gov/cleanenergy



P2 and Water Efficiency

- Helps conserve natural resources and reduce water consumption and costs.
- Thirty-six states expect local or regional water shortages over the next several years.



WaterSense®

- WaterSense aims to protect our water supply by promoting efficiency.
- WaterSense labeled products are 20 percent more water-efficient than others.





WaterSense Benefits

- If all U.S. households installed water-efficient appliances, the country would save more than 3 trillion gallons of water and more than \$18 billion dollars per year.
- If every household in Region 2 alone installed WaterSense labeled faucets only, it would save more than 18 million gallons every day.



WaterSense Resources

- www.epa.gov/watersense



P2 and Green Chemistry/Engineering

- Green Chemistry
 - Environmentally friendly chemicals and processes
 - Result in reduced waste; eliminating costly treatment; safer products; and reduced use of energy and resources
- Green Engineering
 - Processes and products that minimize pollution at the source and reduce risk to human health and the environment





EPA's Green Chemistry Program

- Promotes the research, development, and implementation of innovative chemical technologies that accomplish P2 in a scientifically sound and cost-effective manner.





EPA's Green Engineering Program

- Strives to incorporate risk-related concepts into chemical processes and products designed by academia and industry.





Green Chemistry Successes

- Through 2006, all technologies nominated for the Presidential Green Chemistry Challenge Awards collectively:
 - Eliminate the use or generation of 1.2 billion pounds of hazardous chemicals and solvents each year.
 - Save more than 16 billion gallons of water each.
 - Eliminate 57 million pounds of carbon dioxide emissions each year.



Green Chemistry/Engineering Resources

- Green Chemistry
www.epa.gov/greenchemistry
- Green Engineering
www.epa.gov/oppt/greenengineering
- Environmental Stewardship
www.epa.gov/innovation/stewardship/index.htm
- EPA Region 2: Green Chemistry and Green Engineering in the Pharmaceutical Industry
www.epa.gov/region02/p2/green-pharmaceutical.html





P2 and the Hospitality Industry

- Combines economically and environmentally sustainable practices.
- Wide array of services and activities:
 - Water and energy efficiency
 - Waste reduction
 - Chemical usage
 - Environmentally preferable material procurement



EPA Region 2 and Hospitality Industry

- Established a regional hospitality workgroup.
- Exploring P2 opportunities in hospitality facilities in upstate New York.
- Focusing on improving the hospitality infrastructure in Puerto Rico.



Hospitality Resources

- www.epa.gov/region02/p2



P2 and EPP

- Environmentally preferable purchasing (EPP) considers environmental impact along with price, performance, and other traditional factors when buying products and services.



EPA's EPP Program

- Helps agencies across the federal government comply with green purchasing requirements.
- Provides product information for federal purchasers, as well as green vendors, businesses, and consumers.



EPP Program Benefits

- Stimulates market demand for green products and services.
- Provides a simple standard to hold your products to when making purchases that could affect the environment.



EPEAT™

- Online tool to help purchasers compare and select electronics based on environmental attributes.
- Contains environmental performance criteria.
- Certifies more than 700 electronic products.





EPEAT Successes

- In the first six months of 2006, the use of EPEAT-regulated products prevented:
 - The release of 56.5 million metric tons of air pollution.
 - 118,000 metric tons of water pollution.
 - The disposal of 41,100 metric tons of hazardous waste.



EPP Resources

- EPA's Environmentally Preferable Purchasing Program
www.epa.gov/epp
- EPEAT
www.epeat.net





For Additional Information

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EPA Region 2 Pollution Prevention Program
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Obrigado

Viva

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Jogos Olímpicos

